

WHAT IS CLAIMED IS:

1. A method of reducing development of colorectal neoplasia in a patient subject or predisposed to colorectal neoplasia, the method comprising the steps of:

5                   determining a patient is subject or predisposed to colorectal neoplasia; and

                  enterically delivering into the gut of the person an effective amount of an aminoglycoside antibiotic having poor gut absorption, whereby the development of the colorectal neoplasia is reduced as compared with otherwise similar non-treated patients.

10                2. The method of claim 1, wherein the colorectal neoplasia is non-angiogenin secreting or non-angiogenin dependent.

15                3. The method of claim 1, wherein the colorectal neoplasia is adenomatous polyps.

20                4. The method of claim 1, wherein the colorectal neoplasia is hereditary non-polyposis colon cancer.

25                5. The method of claim 1, wherein the patient has undergone removal or ablation of a colorectal neoplasia and is determined to be predisposed to colorectal neoplasia recurrence.

30                6. The method of claim 1, wherein the patient is determined to be genetically predisposed to the development of colorectal neoplasia.

7. The method of claim 1, wherein the aminoglycoside antibiotic is selected from the group consisting of: Amikacin (Amikin®), Gentamicin (Garamycin®), Kanamycin (Kantrex®), Neomycin (Mycifradin®), Netilmicin (Netromycin®), Paromomycin (Humatin®), Streptomycin, and Tobramycin (TOBI Solution®, TobraDex®, Nebcin®).

8. The method of claim 1, wherein the aminoglycoside antibiotic is other than neomycin.

30                9. The method of claim 1, wherein the aminoglycoside antibiotic is one of a plurality of different antibiotics, and the delivering step is effected by delivering the antibiotics in periodic dosages of different subsets of the antibiotics.

10. The method of claim 1, wherein the aminoglycoside antibiotic is one of a plurality of different antibiotics, and the delivering step is effected by delivering the antibiotics in periodic dosages of different subsets of the antibiotics, wherein the different antibiotics are aminoglycoside antibiotics.

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11. The method of claim 1, wherein the aminoglycoside antibiotic is one of a plurality of different antibiotics, and the delivering step is effected by delivering the antibiotics in periodic dosages of different subsets of the antibiotics, wherein the method further comprises introducing into the gut an effective amount of probiotic, gut-beneficial microbial cultures in periodic dosages.

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12. The method of claim 1, wherein the determining step is done by detecting an indication of or predisposition to polyps or colorectal cancer.

15. 13. The method of claim 1, wherein the delivering step is effected by delivering a constant over time dosage of the aminoglycoside.

14. The method of claim 1, wherein the delivering step is effected by delivering a varying over time dosage of the aminoglycoside.

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15. The method of claim 1, wherein the method further comprises introducing into the gut an effective amount of a probiotic, gut-beneficial microbial culture.

25. 16. The method of claim 1, wherein the gut-beneficial culture comprises a microbe selected from the group consisting of Lactobacillus, Bifidobacteria, Bacteroides, Streptococcus, and Saccharomyces.

30. 17. The method of claim 1, wherein the gut-beneficial culture comprises a microbe selected from the group consisting of: L. acidophilus, L. reuteri, L. acidophilus, L. bulgaricus, L. plantarum, L. casei, L. gasseri, L. GG, S. thermophilus, S. salivarius, B. bifidus, and Saccharomyces boulardii.

18. A kit for delivering an aminoglycoside antibiotic having poor gut absorption, the kit comprising an aminoglycoside antibiotic having poor gut absorption, and an associated instructional medium describing use of the antibiotic in the method of claim 1.

5 19. A kit for delivering an aminoglycoside antibiotic having poor gut absorption, the kit comprising an aminoglycoside antibiotic having poor gut absorption, and an associated instructional medium describing use of the antibiotic in the method of claim 9.

10 20. A kit for delivering an aminoglycoside antibiotic having poor gut absorption, the kit comprising an aminoglycoside antibiotic having poor gut absorption, and an associated instructional medium describing use of the antibiotic in the method of claim 11.